

ATTORNEY DOCKET NO.  
071308.0743  
2003P13444WOUS

PATENT APPLICATION

SUBSTITUTE SPECIFICATION  
FOR NATIONAL PHASE SUBMISSION

CLEAN VERSION

9

ABSTRACT

[0021] A fluid injector has an actuator unit, a cartridge, which has a recess, which on one of its open ends forms an injection nozzle and takes in a needle. The needle has a first and a second part (15, 17). The first part (15) is inserted into the recess and closes or opens the injection nozzle depending on the position of the first part (15). The second part (17) is coupled to the actuator unit on one of its free ends and is coupled to the first part (15) via a coupling unit. The coupling unit is arranged in positive connection to the first part (15) and is joined to the second part. In that way the material for the first part may be chosen for being highly wear resistant. On the other hand the material of the second part (17) may be chosen for being well-suited for a joining process.